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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
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10/501,185	07/13/2004	Kenneth Dye	GJ-256J	7883	
7590 06/24/2005		EXAM	EXAMINER		
Iandiorio & Teska 260 Bear Hill Road Waltham, WA 02451-1018			RINEHART, KENNETH		
			ART UNIT	PAPER NUMBER	
			3749		
			DATE MAILED: 06/24/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)			
		10/501,185	DYE, KENNETH			
	Office Action Summary	Examiner	Art Unit			
		Kenneth B. Rinehart	3749			
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the o	correspondence address			
THE - External after - If the - If NC - Failu Any I	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE.	mely filed  ys will be considered timely. In the mailing date of this communication.  ED (35 U.S.C. § 133).			
Status						
1)🛛	Responsive to communication(s) filed on 13 Ju	uly 2004.				
2a)□	This action is <b>FINAL</b> . 2b) This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims					
5) [	<ul> <li>Claim(s) 1-14 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>Claim(s) is/are allowed.</li> <li>Claim(s) 1-14 is/are rejected.</li> <li>Claim(s) is/are objected to.</li> <li>Claim(s) are subject to restriction and/or election requirement.</li> </ul>					
Applicati	ion Papers					
9)	The specification is objected to by the Examine	er.				
10)🛛	10)⊠ The drawing(s) filed on <u>13 July 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
_	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)	The oath or declaration is objected to by the Ex	kaminer. Note the attached Office	Action or form PTO-152.			
Priority L	ınder 35 U.S.C. § 119	·				
a)[	Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  1. Certified copies of the priority document  2. Certified copies of the priority document  3. Copies of the certified copies of the priority document  application from the International Bureau  See the attached detailed Office action for a list	s have been received. Is have been received in Applicate in the first interest in the fi	ion No ed in this National Stage			
Attachmen	t(s)					
1) Notic	e of References Cited (PTO-892)	4) Interview Summary				
3) 🛛 Inforr	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date <u>13/07/04</u> .	Paper No(s)/Mail D  5) Notice of Informal F  6) Other:	ate Patent Application (PTO-152)			

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-7, 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Poindexter (2615834). Poindexter et al shows a pyrolysis chamber (1, fig. 1), an inlet at a first end of the pyrolysis chamber (2, 56, fig. 2), an outlet at a second end of the pyrolysis chamber (15, fig. 1), and feed means for feeding the material through the pyrolysis chamber, the feed means comprising a cranked member (51, fig. 1), at least one elongate member which extends along the pyrolysis chamber between the inlet and the outlet and which has a first end adjacent the inlet and a second end adjacent the outlet (42, fig. 1), a feed formation connected to the first end of the elongate member (46, fig. 3), and connector means which connects the second end of the elongate member to the cranked member (49, 52, fig. 1), and the feed means being such that rotation of the cranked member (51, fig. 1) causes the elongate member (42, fig. 1) to move backwards and forwards and the feed formation (46, fig. 1) to move the material from the inlet (56, fig. 1) towards the outlet (15, fig. 1), mounting means for hang mounting the first end of the elongate member in order to facilitate the movement backwards and forwards of the elongate member and the movement of the material by the feed formation (38, fig. 4), the mounting means is a hanging bar or a hanging spring (38, fig. 4), the feed formation is a rake head (46, fig. 1), there are at least two of the elongate members (42, fig. 2), and at least two of the feed

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formations (42, fig. 1), there being one of the feed formations for each one of the elongate members (46, 42, fig. 1), there are three of the elongate members, and three of the feed formations (42, 46, fig. 2), including drive means for driving the cranked member (col. 4, lines 2-3, fig. 1), the pyrolysis chamber is constructed as a large long horizontally-extending chamber (fig. 2).

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Claims 1, 4, 7-14 are rejected under 35 U.S.C. 102(b) as being anticipated by DE 374918. DE 374918 shows a pyrolysis chamber, an inlet at a first end of the pyrolysis chamber, an outlet at a second end of the pyrolysis chamber, and feed means for feeding the material through the pyrolysis chamber, the feed means comprising a cranked member, at least one elongate member which extends along the pyrolysis chamber between the inlet and the outlet and which has a first end adjacent the inlet and a second end adjacent the outlet, a feed formation connected to the first end of the elongate member, and connector means which connects the second end of the elongate member to the cranked member, and the feed means being such that rotation of the cranked member causes the elongate member to move backwards and forwards and the feed formation to move the material from the inlet towards the outlet, the feed formation is a rake head, driving means for driving the crank member, the drive means includes a motor, the drive means includes a chain and sprocket arrangement, the pyrolysis chamber is an outer shell which is made of a metal and which has a heat insulating lining, the metal is steel, a floor part of the pyrolysis chamber is formed by a floor of the outer shell and the heat insulating lining on the floor of the pyrolysis chamber is formed of fire bricks, the pyrolysis chamber is constructed as a large long horizontally-extending chamber (the whole document).

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Claims 1, 4-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Beam (1523682). Beam shows a pyrolysis chamber, an inlet at a first end of the pyrolysis chamber (24, fig. 1), an outlet at a second end of the pyrolysis chamber (7, fig. 1), and feed means for feeding the material through the pyrolysis chamber (fig. 16), the feed means comprising a cranked member (page 5, line 116), at least one elongate member which extends along the pyrolysis chamber between the inlet and the outlet and which has a first end adjacent the inlet and a second end adjacent the outlet (30, 71, fig. 1), a feed formation connected to the first end of the elongate member (69, fig. 17), and connector means which connects the second end of the elongate member to the cranked member (A1, fig. 16), and the feed means being such that rotation of the cranked member causes the elongate member to move backwards and forwards and the feed formation to move the material from the inlet towards the outlet (fig. 1), the feed formation is a rake head (69, fig. 17), there are at least two of the elongate members, and at least two of the feed formations (77, 69, fig. 17), there being one of the feed formations for each one of the elongate members, there are three of the elongate members (fig. 1), and three of the feed formations (fig. 1), including drive means for driving the cranked member, the drive means includes a motor (page 5, lines 120-125).

## Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following patents are cited to further show the state of the art with respect to crank apparatus in general: Erith (1431882), Hurlbut (1428636).

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kenneth B. Rinehart whose telephone number is 571-272-4881.

The examiner can normally be reached on 7:20 -4:20.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ira Lazarus can be reached on 571-272-4881. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

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